Neutralising Acids Activity

Your task is to collect the appropriate information from the in class activity and present it in an organized scientific report. In order to score the best possible grade, ensure that you include the following:

1. Title, Name, Class
2. Collect the appropriate information
3. Make a table for your information
4. Make a graph(s) that show the change in pH of each solution
5. Describe the relationships in the data by correctly answering the following questions:
   1. Which kitchen solutions were acidic?
   2. Which kitchen solutions were basic?
   3. Which kitchen solutions were neutral?
   4. How did the acids respond to having some bicarbonate of soda powder added to them?
   5. How did the alkalis respond to having some bicarbonate of soda powder added to them
6. Draw appropriate conclusions by correctly answering the following questions:
   1. Did any results surprise you? Discuss.
   2. Suggest an explanation for your observations with the bicarbonate of soda.
   3. Suggest why bicarbonate of soda is often present in preparations for settling an ‘acid’ stomach.

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| **Criterion E – Processing Data** | | | |
| **Achievement Level** | General Descriptor | | Task Specific Descriptor |
| **0** | The student does not reach a standard described by any of the descriptors below. | You do not reach a standard described by any of the descriptors below. | |
| **1-2** | collect some data  present the data in a simple table  make an attempt to draw a graph  attempt to comment on the relationships  attempt to draw a conclusion | You are able to collect some data about the activity and present it in a simple table. You attempt to draw a simple graph but it may be incorrect. You describe the relationships in the data by answering the questions but it is very limited. You attempt to draw a conclusion, but it does not show a proper interpretation of the data. | |
| **3-4** | collect a considerable amount of data using appropriate units  make an effort to present data in a suitable table  draw suitable graphs or charts  describe almost correctly the relationship  draw a conclusion generally consistent with the data | You are able to collect a considerable amount of data using appropriate units. You are able to present your data in a suitable table, and draw suitable graph(s). You describe almost correctly the relationships present by answering the questions. You draw a conclusion that is generally consistent with the data but some answers may be lacking depth. | |
| **5-6** | collect a considerable amount of data using appropriate units  present data in a suitable table, do any calculations that are necessary  draw suitable graphs or charts  describe correctly the relationships.  draw a correct conclusion | You are able to collect all of the data using the appropriate units. You present your data in a suitable table and draw suitable graph(s). You describe correctly the relationships shown in the data by fully answering the questions. You draw a conclusion that is consistent with the data by answering the questions in depth. | |